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**United States Department of the Interior
FISH AND WILDLIFE SERVICE**

Sacramento Fish and Wildlife Office
2800 Cottage Way, Room W-2605
Sacramento, California 95825



April 14, 2009

Document Number: 090414051032

Corinna Lu
CH2M HILL
155 Grand Avenue, Suite 1000
Oakland, CA 94618

Subject: Species List for Marin Sonoma Narrows

Dear: Ms. Lu

We are sending this official species list in response to your April 14, 2009 request for information about endangered and threatened species. The list covers the California counties and/or U.S. Geological Survey 7½ minute quad or quads you requested.

Our database was developed primarily to assist Federal agencies that are consulting with us. Therefore, our lists include all of the sensitive species that have been found in a certain area *and also ones that may be affected by projects in the area*. For example, a fish may be on the list for a quad if it lives somewhere downstream from that quad. Birds are included even if they only migrate through an area. In other words, we include all of the species we want people to consider when they do something that affects the environment.

Please read Important Information About Your Species List (below). It explains how we made the list and describes your responsibilities under the Endangered Species Act.

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be July 13, 2009.

Please contact us if your project may affect endangered or threatened species or if you have any questions about the attached list or your responsibilities under the Endangered Species Act. A list of Endangered Species Program contacts can be found at www.fws.gov/sacramento/es/branches.htm.

Endangered Species Division



U.S. Fish & Wildlife Service Sacramento Fish & Wildlife Office

**Federal Endangered and Threatened Species that Occur in
or may be Affected by Projects in the Counties and/or
U.S.G.S. 7 1/2 Minute Quads you requested**

Document Number: 090414051032

Database Last Updated: January 29, 2009

Quad Lists

Listed Species

Invertebrates

- Speyeria zerene myrtleae*
Myrtle's silverspot butterfly (E)
- Syncaris pacifica*
California freshwater shrimp (E)

Fish

- Eucyclogobius newberryi*
tidewater goby (E)
- Hypomesus transpacificus*
delta smelt (T)
- Oncorhynchus kisutch*
coho salmon - central CA coast (E) (NMFS)
- Oncorhynchus mykiss*
Central California Coastal steelhead (T) (NMFS)
Central Valley steelhead (T) (NMFS)
Critical habitat, Central California coastal steelhead (X) (NMFS)
- Oncorhynchus tshawytscha*
California coastal chinook salmon (T) (NMFS)
Central Valley spring-run chinook salmon (T) (NMFS)
winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

- Ambystoma californiense*
California tiger salamander, central population (T)
- Rana aurora draytonii*
California red-legged frog (T)
Critical habitat, California red-legged frog (X)

Birds

- Charadrius alexandrinus nivosus*
western snowy plover (T)
- Pelecanus occidentalis californicus*
California brown pelican (E)
- Rallus longirostris obsoletus*
California clapper rail (E)
- Sternula antillarum (=Sterna, =albifrons) browni*
California least tern (E)
- Strix occidentalis caurina*
northern spotted owl (T)

Mammals

Reithrodontomys raviventris
salt marsh harvest mouse (E)

Plants

Blennosperma bakeri
Baker's stickyseed [=Sonoma Sunshine] (E)
Chorizanthe valida
Sonoma spineflower (E)
Delphinium bakeri
Critical habitat, Baker's larkspur (X)
Delphinium luteum
yellow larkspur (E)
Hesperolinon congestum
Marin dwarf-flax (=western flax) (T)
Lasthenia burkei
Burke's goldfields (E)
Lasthenia conjugens
Contra Costa goldfields (E)
Limnanthes vinculans
Sebastopol meadowfoam (E)

Proposed Species

Amphibians

Rana aurora draytonii
Critical habitat, California red-legged frog (PX)

Quads Containing Listed, Proposed or Candidate Species:

PETALUMA RIVER (484A)

PETALUMA (484B)

NOVATO (484D)

COTATI (501C)

GLEN ELLEN (501D)

County Lists

No county species lists requested.

Key:

- (E) *Endangered* - Listed as being in danger of extinction.
- (T) *Threatened* - Listed as likely to become endangered within the foreseeable future.
- (P) *Proposed* - Officially proposed in the Federal Register for listing as endangered or threatened.
- (NMFS) Species under the Jurisdiction of the National Oceanic & Atmospheric Administration Fisheries Service. Consult with them directly about these species.
- Critical Habitat* - Area essential to the conservation of a species.
- (PX) *Proposed Critical Habitat* - The species is already listed. Critical habitat is being proposed for it.
- (C) *Candidate* - Candidate to become a proposed species.
- (V) *Vacated* by a court order. Not currently in effect. Being reviewed by the Service.
- (X) *Critical Habitat* designated for this species

Important Information About Your Species List

How We Make Species Lists

We store information about endangered and threatened species lists by U.S. Geological Survey 7½ minute quads. The United States is divided into these quads, which are about the

size of San Francisco.

The animals on your species list are ones that occur within, **or may be affected by** projects within, the quads covered by the list.

- Fish and other aquatic species appear on your list if they are in the same watershed as your quad or if water use in your quad might affect them.
- Amphibians will be on the list for a quad or county if pesticides applied in that area may be carried to their habitat by air currents.
- Birds are shown regardless of whether they are resident or migratory. Relevant birds on the county list should be considered regardless of whether they appear on a quad list.

Plants

Any plants on your list are ones that have actually been observed in the area covered by the list. Plants may exist in an area without ever having been detected there. You can find out what's in the surrounding quads through the California Native Plant Society's online [Inventory of Rare and Endangered Plants](#).

Surveying

Some of the species on your list may not be affected by your project. A trained biologist and/or botanist, familiar with the habitat requirements of the species on your list, should determine whether they or habitats suitable for them may be affected by your project. We recommend that your surveys include any proposed and candidate species on your list. See our [Protocol](#) and [Recovery Permits](#) pages.

For plant surveys, we recommend using the [Guidelines for Conducting and Reporting Botanical Inventories](#). The results of your surveys should be published in any environmental documents prepared for your project.

Your Responsibilities Under the Endangered Species Act

All animals identified as listed above are fully protected under the Endangered Species Act of 1973, as amended. Section 9 of the Act and its implementing regulations prohibit the take of a federally listed wildlife species. Take is defined by the Act as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect" any such animal.

Take may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or shelter (50 CFR §17.3).

Take incidental to an otherwise lawful activity may be authorized by one of two procedures:

- If a Federal agency is involved with the permitting, funding, or carrying out of a project that may result in take, then that agency must engage in a formal [consultation](#) with the Service.

During formal consultation, the Federal agency, the applicant and the Service work together to avoid or minimize the impact on listed species and their habitat. Such consultation would result in a biological opinion by the Service addressing the anticipated effect of the project on listed and proposed species. The opinion may authorize a limited level of incidental take.

- If no Federal agency is involved with the project, and federally listed species may be taken as part of the project, then you, the applicant, should apply for an incidental take permit. The Service may issue such a permit if you submit a satisfactory conservation plan for the species that would be affected by your project.

Should your survey determine that federally listed or proposed species occur in the area and are likely to be affected by the project, we recommend that you work with this office and the California Department of Fish and Game to develop a plan that minimizes the project's direct

and indirect impacts to listed species and compensates for project-related loss of habitat. You should include the plan in any environmental documents you file.

Critical Habitat

When a species is listed as endangered or threatened, areas of habitat considered essential to its conservation may be designated as critical habitat. These areas may require special management considerations or protection. They provide needed space for growth and normal behavior; food, water, air, light, other nutritional or physiological requirements; cover or shelter; and sites for breeding, reproduction, rearing of offspring, germination or seed dispersal.

Although critical habitat may be designated on private or State lands, activities on these lands are not restricted unless there is Federal involvement in the activities or direct harm to listed wildlife.

If any species has proposed or designated critical habitat within a quad, there will be a separate line for this on the species list. Boundary descriptions of the critical habitat may be found in the Federal Register. The information is also reprinted in the Code of Federal Regulations (50 CFR 17.95). See our [Map Room](#) page.

Candidate Species

We recommend that you address impacts to candidate species. We put plants and animals on our candidate list when we have enough scientific information to eventually propose them for listing as threatened or endangered. By considering these species early in your planning process you may be able to avoid the problems that could develop if one of these candidates was listed before the end of your project.

Species of Concern

The Sacramento Fish & Wildlife Office no longer maintains a list of species of concern. However, various other agencies and organizations maintain lists of at-risk species. These lists provide essential information for land management planning and conservation efforts.
[More info](#)

Wetlands

If your project will impact wetlands, riparian habitat, or other jurisdictional waters as defined by section 404 of the Clean Water Act and/or section 10 of the Rivers and Harbors Act, you will need to obtain a permit from the U.S. Army Corps of Engineers. Impacts to wetland habitats require site specific mitigation and monitoring. For questions regarding wetlands, please contact Mark Littlefield of this office at (916) 414-6580.

Updates

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be July 13, 2009.

Appendix H Project Study Area Sensitive Species Table

Table H Project Study Area Sensitive Species Table

Scientific Name	Common Name	Federal, State Status ¹	Specific Habitat	Species Impacted (*Yes/No)	Rationale
AMPHIBIANS					
<i>Ambystoma californiense</i>	California tiger salamander (Sonoma population)	FE, SSC	Open grassland	No	Development, highway, and Petaluma River serve as potential barriers to dispersal between project area and known breeding habitat.
<i>Rana aurora draytonii</i>	California red-legged frog	FT, SSC	Permanent sources of water with dense riparian vegetation	Yes	Dispersal habitat is present in the project area
<i>Rana aurora draytonii</i> , Critical Habitat	California red-legged frog	FX	Permanent sources of water with dense riparian vegetation	No	Dispersal habitat is present in the project area
<i>Rana boylii</i>	foothill yellow-legged frog	SSC	Shaded, shallow streams	No	Species was not observed during amphibian surveys conducted by CH2M HILL on the respective dates as listed in Table 1, Chapter 2.2.
BIRDS					
<i>Agelaius tricolor</i>	tricolored blackbird	SSC	Open water, nesting habitat	No	Species may be present within project area. Caltrans will conduct surveys prior to disturbance of potential nesting habitat. Work windows should minimize any impact to this species.
<i>Ardea herodias</i>	great blue heron	CDFG	Large nests present in eucalyptus trees near San Antonio Road	Yes	Visually observed foraging in project area. Caltrans will conduct surveys prior to disturbance of potential nesting habitat. Work windows should minimize any impacts to this species.

Table H Project Study Area Sensitive Species Table

Scientific Name	Common Name	Federal, State Status¹	Specific Habitat	Species Impacted (*Yes/No)	Rationale
<i>Athene cunicularia</i>	burrowing owl	SSC	Open, dry annual or perennial grasslands, deserts and scrublands characterized by low-growing vegetation	No	Last known record observed outside project limits. No burrowing owls, evidence of burrowing owls, or burrows observed throughout project surveys. Project limits not optimum habitat.
<i>Charadrius alexandrinus nivosus</i>	western snowy plover	FT	Flat, open coastal beaches, and in dunes	No	No appropriate habitat within project limits.
<i>Coccycuza americanaus occidentalis</i>	western yellow-billed cuckoo	FC, SE	Riparian cover, blackberry, willows, cottonwoods	No	Project is outside of species' current known range. Caltrans will conduct nesting surveys prior to disturbance of potential nesting habitat.
<i>Elanus leucurus</i>	white-tailed kite	CDFG	Open grasslands, meadows, or marshes for foraging close to isolated, dense-topped trees for nesting and perching	No	With use of work windows outside of nesting season, project should not impact this species.
<i>Geothlypis trichas sinuosa</i>	saltmarsh common yellowthroat	SSC	Marsches with tules and willows	No	Species may be present within project area. However, work will not be conducted in preferred habitat. Caltrans will conduct nest surveys prior to disturbance of potential nesting habitat.
<i>Haliaeetus leucocephalus</i>	bald eagle	FT	Large bodies of open water such as sea coasts, rivers, lakes and marshes	No	Project does not provide optimum habitat for the bald eagle. None have been observed within project limits during surveys. Nesting surveys will be conducted prior to beginning of construction.

Table H Project Study Area Sensitive Species Table

Scientific Name	Common Name	Federal, State Status¹	Specific Habitat	Species Impacted ("Yes/No")	Rationale
<i>Laterallus jamaicensis coturniculus</i>	California black rail	ST	Pickleweed, brackish marsh	No	Species may be present within project area. Impacts to pickleweed and brackish marsh habitat will be minimized. Impacts to areas of pickleweed will be close to existing highway. Caltrans will conduct surveys prior to disturbance of potential nesting habitat.
<i>Melospiza melodia samuelis</i>	San Pablo song sparrow	SSC	salt marshes	No	Species may be present in project area. Caltrans will conduct nest surveys prior to disturbance of potential nesting habitat. Work windows and work outside of preferred habitat should minimize any impacts to species.
<i>Pelecanus occidentalis californicus</i>	California brown pelican	FE	Coastal salt water, beaches, bays, marshes and open ocean	No	Project area does not provide preferred habitat for brown pelican. No brown pelicans have been observed within project area during surveys..
<i>Rallus longirostris obsoletus</i>	California clapper rail	FE, SE	Pickleweed, brackish marsh	No	Species unlikely to be present within project area. No cordgrass in project area. Impacts to pickleweed and brackish marsh habitat will be minimized. Very minimal impact to pickleweed adjacent to Petaluma River Bridge. Caltrans will conduct surveys prior to disturbance of potential nesting habitat.
<i>Sternula antillarum (=Sternia albifrons) browni</i>	California least tern	FE	Shallow estuaries and lagoons, sandy beaches and mudflats near ocean	No	Project does not provide habitat for this species.
<i>Strix occidentalis caurina</i>	northern spotted owl	FT	Large tracts of old growth forest	No	Project does not contain habitat for the northern spotted owl.

Table H Project Study Area Sensitive Species Table

FISH	Scientific Name	Common Name	Federal, State Status ¹	Specific Habitat	Species Impacted ("Yes/No")	Rationale
<i>Acipenser medirostris</i>	southern distinct population segment (DPS) North American green sturgeon (tidewater goby)		FT FE, SSC	nearshore oceanic waters, bays, and estuaries Brackish water	Yes No	Species may be present in project area based on personal communication with Eric Schmidt (NMFS). No appropriate habitat based on personal communication with Bill Cox (CDFG).
<i>Eucyclogobius newberryi</i>	Delta smelt		FT	Shallow, open water of the upper reaches of the Delta	No	No appropriate habitat within project limits
<i>Hypomesus transpacificus</i>	coho salmon - Central California Coast		FE (NMFS)	Creeks with dense riparian cover	No	No appropriate habitat based on personal communication with Bill Cox (CDFG). Streambeds in project area contain a lot of silt.
<i>Oncorhynchus kisutch</i>	steelhead-Central California Coast/Central Valley		FT (NMFS)	Creeks with dense riparian cover	Yes	Species may be present in project area based on personal communication with Bill Cox (CDFG).
<i>Oncorhynchus mykiss</i>	Critical habitat - Central California coastal steelhead		FX (NMFS)	Creeks with dense riparian cover	No	Species may be present in project area based on personal communication with Bill Cox (CDFG).
<i>Oncorhynchus tshawytscha</i>	Chinook-California Coastal/Central Valley spring-run		FT (NMFS)	Large freshwater rivers	No	Not preferred habitat (i.e.; Sacramento River). Work windows and best management practices should preclude any impact to this species.
<i>Oncorhynchus tshawytscha</i>	Winter-run chinook, Sacramento River		FE (NMFS)	Large freshwater rivers	No	Not preferred habitat (i.e.; Sacramento River). Work windows and best management practices should preclude any impact to this species.
<i>Oncorhynchus tshawytscha</i>	Central Valley fall/late fall-run chinook salmon		FC (NMFS)	Large freshwater rivers	Yes	Species may be present in project area (CDFG).

Table H Project Study Area Sensitive Species Table

Scientific Name	Common Name	Federal, State Status¹	Specific Habitat	Species Impacted (*Yes/No)	Rationale
<i>Oncorhynchus tshawytscha</i>	Central Valley fall/late fall-run chinook salmon critical habitat	FCX (NMFS)	Large freshwater rivers	N/Yes	Species may be present in project area based on personal communication with Bill Cox (CDFG).
<i>Pogonichthys macrolepidotus</i>	Sacramento splittail	SSC	Rivers	Yes	Species may be present in project area based on personal communication with CH2M HILL and Bill Cox (CDFG). Work windows and best management practices should preclude any impact to this species.
INVERTEBRATES					
<i>Caecidotea tomatensis</i>	Tomales isopod	CDFG	Freshwater streams, ponds	No	Work in freshwater streams will be conducted when they are dry. Freshwater ponds in the project area will be avoided.
<i>Calicina diminua</i>	Marin blind harvestman	CDFG	Serpentine grassland area on a portion of Burdell Mountain in Marin County	No	Project limits do not impact this species preferred habitat area.
<i>Hydrochara rickseckeri</i>	Picksecker's water scavenger beetle	CDFG	Marsches, creeks, rivers	Yes	Species may be present within project area, however, known records are northeast of Petaluma, outside of project limits.
<i>Speyeria zerene myrtleae</i>	Myrtle's silverspot butterfly	FE	Coastal dunes or prairie habitat, usually within three miles of the coast	No	Project area does not provide preferred habitat.
<i>Syncaris pacifica</i>	California freshwater shrimp	FE	Shallow, slow moving streams with undercut banks and exposed roots for cover	No	Project would not impact this species per discussion with Larry Seipa (Nature Conservancy, CA. freshwater shrimp specialist).
<i>Talanites ubicki</i>	Ubick's gnaphosid spider	CDFG	Serpentine, Mount Burdell	No	Project will not impact this species preferred habitat area.

Table H Project Study Area Sensitive Species Table

Scientific Name	Common Name	Federal, State Status¹	Specific Habitat	Species Impacted (*Yes/No)	Rationale
<i>Tryonia imitator</i>	mimic tryonia (California brackishwater snail)	CDFG	Inhabits coastal lagoons, estuaries, and salt marshes	Yes	Salt marshes disturbed in project area. Species could potentially be impacted, however, probability is low.
<i>Vespericola marinensis</i>	Marin Hesperian	CDFG	Moist spots in coastal brushfield and chaparral vegetation in Marin County.	No	Project not impacting preferred habitat.
MAMMALS					
<i>Antrozous pallidus</i>	pallid bat	SSC	Bridge structures, riparian areas	Yes	Pallid bat guano visually observed beneath historical San Antonio Creek Bridge. Work windows and exclusion methods would minimize impacts.
<i>Corynorhinus townsendii</i>	Townsend's big-eared bat	SSC	Roosts in open, hanging from walls and ceilings.	Yes	Species could utilize several structures within project limits. Work windows and exclusion methods would minimize impacts.
<i>Reithrodontomys raviventris</i>	salt-marsh harvest mouse	FE, SE	Pickleweed, brackish marsh	Yes	Known locations near project area. Impacts to pickleweed will be minimized to avoid impacting species.
<i>Taxidea taxus</i>	American badger	SSC	Woodlands, shrub thickets	Yes	Species may be present in project area. No burrows observed during field visits.
REPTILES					
<i>Emys (=Clemmys) marmorata</i>	western pond turtle	SSC	Marshes, rivers, streams, ditches	Yes	Species may be present within project area.
<i>Emys (=Clemmys) marmorata</i>	northwestern pond turtle	SSC	Marshes, rivers, streams, ditches	Yes	Species may be present within project area.
PLANTS					
<i>Allium peninsulae</i> var. <i>franciscanum</i>	Franciscan onion	CNPS	Woodlands, grasslands, clay soils	No	Species not observed during plant surveys on the respective dates listed in Table 1, Chapter 2.2.

Table H Project Study Area Sensitive Species Table

Scientific Name	Common Name	Federal, State Status¹	Specific Habitat	Species Impacted (*Yes/No)	Rationale
<i>Alopecurus aequalis</i> var. <i>sonomensis</i>	Sonoma alopecurus	FE, CNPS	Marsches, riparian scrub	Yes	Habitat for this species is present in the project area
<i>Amorpha californica</i> var. <i>napensis</i>	Napa false indigo	CNPS	Dry brushy or wooded slopes	No	Species not observed during plant surveys on the respective dates listed in Table 1, Chapter 2.2.
<i>Amsinckia lunaris</i>	bent-flowered fiddleneck	CNPS	Woodlands, grasslands	No	Species not observed during plant surveys on the respective dates listed in Table 1, Chapter 2.2.
<i>Arctostaphylos hookeri</i> ssp. <i>montana</i>	Mt. Tamalpais manzanita	CNPS	Grasslands	No	Species not observed during plant surveys on the respective dates listed in Table 1, Chapter 2.2.
<i>Aster latus</i>	Suisun Marsh aster	CNPS	Marsches and swamps (brackish and freshwater)	No	Species not observed within project limits. Last known occurrence was in 1897 in Petaluma area.
<i>Astragalus tener</i> var. <i>tener</i>	alkali milk-vetch	CNPS	Alkali flats that flood seasonally	No	Species not observed during plant surveys on the respective dates listed in Table 1, Chapter 2.2.
<i>Blennosperma bakeri</i>	Baker's stickyseed (=Sonoma sunshine)	FE, SE, CNPS	Grasslands, swales	No	Species not observed during plant surveys on the respective dates listed in Table 1, Chapter 2.2.
<i>California macrophyllum</i>	round-leaved filaree	CNPS	Woodlands, grasslands, clay soils	No	Species not observed during surveys. Last occurrence was in 1880 near Petaluma.
<i>Ceanothus sonomensis</i>	Sonoma ceanothus	CNPS	Chaparral, sandy, serpentine or volcanic soils.	No	Species not observed during surveys. Last observed in 1939 outside of project area.
<i>Centromadia parryi</i> ssp. <i>parryi</i>	pappose tarplant	CNPS	Alkaline soils, grasslands	No	Species not observed during plant surveys on the respective dates listed in Table 1, Chapter 2.2.

Table H Project Study Area Sensitive Species Table

Scientific Name	Common Name	Federal, State Status¹	Specific Habitat	Species Impacted ("Yes/No")	Rationale
<i>Chorizanthe valida</i>	Sonoma spineflower	FE, SE, CNPS	Coastal prairie, sandy soil	No	Species not observed during surveys. Project area does not provide preferred habitat.
<i>Cordylanthus maritimus ssp. palustris</i>	Point Reyes bird's-beak	CNPS	Salt marshes	No	Species not observed during plant surveys on the respective dates listed in Table 1, Chapter 2.2. Project not near coast.
<i>Cordylanthus mollis ssp. mollis</i>	soft bird's-beak	FE, SR, CNPS	Salt marshes	Yes	Habitat for this species is present in the project area
<i>Delphinium bakeri</i>	Baker's larkspur	FX	Grasslands, soils derived from shale	Yes	Habitat for this species is present in the project area
<i>Delphinium luteum</i>	yellow larkspur	FE, SR, CNPS	Chaparral, coastal prairie, coastal scrub	No	Species not observed during surveys. Project area does not provide habitat for species.
<i>Downingia pusilla</i>	dwarf downingia	CNPS	Grasslands	No	Species not observed during plant surveys on the respective dates listed in Table 1, Chapter 2.2.
<i>Fritillaria liliacea</i>	fragrant fritillary	CNPS	Clay soils, grasslands	No	Species not observed during plant surveys on the respective dates listed in Table 1, Chapter 2.2.
<i>Hesperolinon congestum</i>	Marin dwarf flax (=western flax)	FT, ST, CNPS	Grasslands	No	Species not observed during plant surveys on the respective dates listed in Table 1, Chapter 2.2.
<i>Lasthenia burkei</i>	Burke's goldfields	FE, SE, CNPS	Seeps, wet areas	Yes	Habitat for this species is present in the project area
<i>Lasthenia conjugens</i>	Contra Costa goldfields	FE, CNPS	Grasslands, woodlands	Yes	Habitat for this species is present in the project area
<i>Legenere limosa</i>	legenere	CNPS	Seasonal wetlands	No	Species not observed during plant surveys on the respective dates listed in Table 1, Chapter 2.2.

Table H Project Study Area Sensitive Species Table

Scientific Name	Common Name	Federal, State Status¹	Specific Habitat	Species Impacted (*Yes/No)	Rationale
<i>Leptosiphon jepsonii</i>	Jepson's leptosiphon	CNPS	Woodlands	No	Species not observed during plant surveys on the respective dates listed in Table 1, Chapter 2.2.
<i>Limnanthes vinculans</i>	Sebastopol meadowfoam	FE, SE, CNPS	Grasslands, clay soils	No	The species has not been recorded outside southwestern Cotati Valley, where it occurs in less than thirty locations. It is not expected to occur in the project area..
<i>Microseris paludosa</i>	marsh microseris	CNPS	Woodlands, grasslands	No	Species not observed during plant surveys on the respective dates listed in Table 1, Chapter 2.2.
<i>Navarretia leucocephala</i> ssp. <i>bakeri</i>	Baker's navarretia	CNPS	Alkaline soils, woodlands, grasslands	No	Species not observed during plant surveys on the respective dates listed in Table 1, Chapter 2.2.
<i>Plagiobothrys mollis</i> var. <i>vestitus</i>	Petaluma popcorn-flower	CNPS	Wet areas	No	Species not observed during plant surveys on the respective dates listed in Table 1, Chapter 2.2.
<i>Pleuropogon hooverianus</i>	North Coast seamount grass	ST, CNPS	Seeps, wet areas	No	Species not observed during plant surveys on the respective dates listed in Table 1, Chapter 2.2.
<i>Polygonum marinense</i>	Marin knotweed	CNPS	Salt marshes	No	Species not observed during plant surveys on the respective dates listed in Table 1, Chapter 2.2.
<i>Sidalcea calycosa</i> ssp. <i>rhizomatata</i>	Point Reyes checkerbloom	CNPS	Marshes and swamps. Freshwater marshes near coast.	No	Species not observed during surveys. Project area is not near coast and does not provide preferred habitat.
<i>Streptanthus glandulosus</i> ssp. <i>pulchellus</i>	Mt. Tamalpais jewelflower	CNPS	Grasslands	No	Species not observed during plant surveys on the respective dates listed in Table 1, Chapter 2.2.

Table H Project Study Area Sensitive Species Table

Scientific Name	Common Name	Federal, State Status ¹	Specific Habitat	Species Impacted (*Yes/No)	Rationale
<i>Trifolium amoenum</i>	showy Indian clover	FE, CNPS	Grasslands with swales	Yes	Habitat for this species is present in the project area

¹Key:

CDFG – listed by the California Department of Fish and Game

CNPS – listed by the California Native Plant Society

FE – Federally endangered

FT – Federally threatened

FSC – Federal species of special concern

FSLC – Federal species of local concern

FC – Federal candidate

FCX – Federal candidate critical habitat

*Yes = there is a low probability that species could be impacted.

*Please note that when a federally listed species will not be impacted, then formal or informal consultation with the USFWS or NOAA Fisheries is not necessary and a “no effect” determination does not need to be made.